

10/644,969

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(FILE 'HOME' ENTERED AT 17:35:12 ON 18 JUN 2007)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 17:36:20 ON 18 JUN 2007

L1 981 S (PROTONAT? OR ACIDIF?) (4A) (DNA OR CDNA OR POLYNUCLEOTIDE OR N
L2 141353 S (WOUND OR BURN) (4A) (HEAL? OR DRESS? OR CLOSURE) OR SKIN(3A)SU
L3 1 S L1 AND L2
L4 143410 S (WOUND OR BURN) (7A) (HEAL? OR DRESS? OR CLOSURE) OR SKIN(3A)SU
L5 1 S L1 AND L4

=> d bib ab 15

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:769059 CAPLUS
DN 139:297061
TI Devices with protonated nucleic acids for
improved wound management
IN Dale, Roderic M. K.; Gatton, Steven L.; Arrow, Amy
PA Oligos Etc. Inc., USA
SO U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 222,009.
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 6627215	B1	20030930	US 1999-281858	19990331
	US 6211349	B1	20010403	US 1998-222009	19981230
	AT 328893	T	20060615	AT 1999-966301	19991215
	US 2002032164	A1	20020314	US 2001-847654	20010503
	US 2005025815	A1	20050203	US 2003-644969	20030821
	US 2005107344	A1	20050519	US 2004-937094	20040908
	US 7176191	B2	20070213		
	US 2007053971	A1	20070308	US 2006-552951	20061025
PRAI	US 1998-222009	A2	19981230		
	US 1999-281858	A2	19990331		
	US 2001-847654	B1	20010503		
	US 2004-937094	A2	20040908		

AB The present invention provides devices and compns. for the management of infection of topical lesions, each of the devices and compns. containing protonated/acidified nucleic acids either on its surface, or integrated into the device. These modified nucleic acids are effective as bactericidal and/or bacteriostatic agents without regard to the class of bacteria, so are especially useful when diagnosis is difficult or when multiple infectious organisms are present. The antibiotic activity of nucleic acids of the invention is not dependent on either the specific sequence of the nucleic acid or the length of the nucleic acid mol. The nucleic acids used in the invention are protonated/acidified to give a pH when dissolved in water of less than pH 7 to about 1, more preferably less than pH 4.5 to about 1, and even more preferably less than pH 2 to about 1. For example, a 10% solution of protonated/acidified monomer di-Bu diphosphate 2'-O-methyluridine was prepared, coated on a size 2/0 Mersilene PET braided multifilament suture, and dried in air at elevated temperature to remove the solvent.

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L3 1 S L1 AND L2
L4 143410 S (WOUND OR BURN) (7A) (HEAL? OR DRESS? OR CLOSURE) OR SKIN(3A)SU
L5 1 S L1 AND L4
L6 791651 S ULCER OR WOUND OR BURN OR BITES
L7 8 S L1 AND L6
L8 3 DUP REM L7 (5 DUPLICATES REMOVED)

=> d au ti so pi 1-3 l8

L8 ANSWER 1 OF 3 MEDLINE on STN DUPLICATE 1
AU Dale Roderic M K; Schnell Glen; Wong Jonathan P
TI Therapeutic efficacy of "nubiotics" against burn wound
infection by Pseudomonas aeruginosa.
SO Antimicrobial agents and chemotherapy, (2004 Aug) Vol. 48, No. 8, pp.
2918-23.
Journal code: 0315061. ISSN: 0066-4804.

L8 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2
IN Dale, Roderic M. K.; Gatton, Steven L.; Arrow, Amy
TI Devices with protonated nucleic acids for
improved wound management
SO U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 222,009.
CODEN: USXXAM
PATENT NO. KIND DATE APPLICATION NO. DATE

PI US 6627215 B1 20030930 US 1999-281858 19990331
US 6211349 B1 20010403 US 1998-222009 19981230
AT 328893 T 20060615 AT 1999-966301 19991215
US 2002032164 A1 20020314 US 2001-847654 20010503
US 2005025815 A1 20050203 US 2003-644969 20030821
US 2005107344 A1 20050519 US 2004-937094 20040908
US 7176191 B2 20070213
US 2007053971 A1 20070308 US 2006-552951 20061025

L8 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
IN Dale, Roderic M. K.; Arrow, Amy; Gatton, Steven L.; Thompson, Terry
TI Protonated/acidified nucleic acids
and uses thereof in treatment of diseases caused by bacterial pathogens
SO PCT Int. Appl., 42 pp.
CODEN: PIXXD2

PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2000040591 A1 20000713 WO 1999-US29843 19991215
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
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MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
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CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
US 6211349 B1 20010403 US 1998-222009 19981230
CA 2358570 A1 20000713 CA 1999-2358570 19991215
EP 1140965 A1 20011010 EP 1999-966301 19991215
EP 1140965 B1 20060607
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, SI, LT, LV, FI, RO, CY				
JP 2002534433	T	20021015	JP 2000-592299	19991215
AT 328893	T	20060615	AT 1999-966301	19991215
AU 2004226974	A1	20041202	AU 2004-226974	20041104

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L4 143410 S (WOUND OR BURN) (7A) (HEAL? OR DRESS? OR CLOSURE) OR SKIN(3A)SU
L5 1 S L1 AND L4
L6 791651 S ULCER OR WOUND OR BURN OR BITES
L7 8 S L1 AND L6
L8 3 DUP REM L7 (5 DUPLICATES REMOVED)
L9 344388 S ANTIBACTERIAL
L10 11 S L1(P)L9
L11 6 DUP REM L10 (5 DUPLICATES REMOVED)
L12 12 S L1 AND L9
L13 7 DUP REM L12 (5 DUPLICATES REMOVED)

=> d au ti so pi 1-7 l13

L13 ANSWER 1 OF 7 MEDLINE on STN DUPLICATE 1
AU Dale Roderic M K; Schnell Glen; Wong Jonathan P
TI Therapeutic efficacy of "nubiotics" against burn wound infection by
Pseudomonas aeruginosa.
SO Antimicrobial agents and chemotherapy, (2004 Aug) Vol. 48, No. 8, pp.
2918-23.
Journal code: 0315061. ISSN: 0066-4804.

L13 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
IN Dale, Roderic M. K.; Gatton, Steven L.; Arrow, Amy
TI Devices with protonated nucleic acids for
improved wound management
SO U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 222,009.
CODEN: USXXAM

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6627215	B1	20030930	US 1999-281858	19990331
US 6211349	B1	20010403	US 1998-222009	19981230
AT 328893	T	20060615	AT 1999-966301	19991215
US 2002032164	A1	20020314	US 2001-847654	20010503
US 2005025815	A1	20050203	US 2003-644969	20030821
US 2005107344	A1	20050519	US 2004-937094	20040908
US 7176191	B2	20070213		
US 2007053971	A1	20070308	US 2006-552951	20061025

L13 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
AU Kichler, Antoine; Leborgne, Christian; Marz, Josefine; Danos, Olivier;
Bechinger, Burkhard
TI Histidine-rich amphipathic peptide antibiotics promote efficient delivery
of DNA into mammalian cells
SO Proceedings of the National Academy of Sciences of the United States of
America (2003), 100(4), 1564-1568
CODEN: PNASA6; ISSN: 0027-8424

L13 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2
IN Dale, Roderic M. K.; Gatton, Steven L.; Arrow, Amy
TI Pulmonary delivery of protonated/acidified
nucleic acids
SO U.S., 15 pp., Cont.-in-part of U.S. Ser. No. 222,009.
CODEN: USXXAM

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6211162	B1	20010403	US 1999-282824	19990331
US 6211349	B1	20010403	US 1998-222009	19981230
AT 328893	T	20060615	AT 1999-966301	19991215

WO 2000057890 A1 20001005 WO 2000-US8244 20000328
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
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CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
EP 1169046 A1 20020109 EP 2000-921487 20000328
EP 1169046 B1 20030827
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO
JP 2002540160 T 20021126 JP 2000-607640 20000328
AT 247972 T 20030915 AT 2000-921487 20000328
AU 781560 B2 20050602 AU 2000-41796 20000328

L13 ANSWER 5 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
AU Dale, Roderic M. K. [Inventor]; Arrow, Amy [Inventor]; Gatton, Steven L.
[Inventor]; Thompson, Terry [Inventor, Reprint author]
TI Protonated/acidified nucleic acids
and methods of use.
SO Official Gazette of the United States Patent and Trademark Office Patents,
(Apr. 3, 2001) Vol. 1245, No. 1. e-file.
CODEN: OGUPE7. ISSN: 0098-1133.
PI US 6211349 20010403

L13 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
IN Dale, Roderic M. K.; Gatton, Steven L.; Arrow, Amy
TI Pulmonary delivery of protonated/acidified
nucleic acids
SO PCT Int. Appl., 51 pp.
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000057890	A1	20001005	WO 2000-US8244	20000328
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EP 1169046	A1	20020109	EP 2000-921487	20000328
EP 1169046	B1	20030827		
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JP 2002540160	T	20021126	JP 2000-607640	20000328
AT 247972	T	20030915	AT 2000-921487	20000328
AU 781560	B2	20050602	AU 2000-41796	20000328

L13 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
IN Dale, Roderic M. K.; Arrow, Amy; Gatton, Steven L.; Thompson, Terry
TI Protonated/acidified nucleic acids
and uses thereof in treatment of diseases caused by bacterial pathogens
SO PCT Int. Appl., 42 pp.
CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000040591	A1	20000713	WO 1999-US29843	19991215
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,				

IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
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US 6211349	B1	20010403	US 1998-222009	19981230
CA 2358570	A1	20000713	CA 1999-2358570	19991215
EP 1140965	A1	20011010	EP 1999-966301	19991215
EP 1140965	B1	20060607		
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JP 2002534433	T	20021015	JP 2000-592299	19991215
AT 328893	T	20060615	AT 1999-966301	19991215
AU 2004226974	A1	20041202	AU 2004-226974	20041104

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	IBM Technical Disclosure Bulletins

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<u>L5</u>	11 with L4	11	<u>L5</u>
<u>L4</u>	wound or burn or ulcer or bites	577698	<u>L4</u>
<u>L3</u>	11 and L2	7	<u>L3</u>
<u>L2</u>	(wound or burn or bites or ulcer) near5 (heal\$ or dress\$ or closure) or skin near3 substitue	40563	<u>L2</u>
<u>L1</u>	(protonat\$ or acidif\$) near6 (dna or cdna or polynucleotide or nucleic adj acid)	306	<u>L1</u>

END OF SEARCH HISTORY

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- ☐ 1. [20070111221](#). 17 Mar 06. 17 May 07. Method of preparation for pharmaceutical grade plasmid DNA. Blanche; Francis, et al. 435/6; 435/287.1 435/317.1 C12M3/00 20060101 C12N1/00 20060101 C12Q1/68 20060101
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- ☐ 3. [20050025815](#). 21 Aug 03. 03 Feb 05. Devices for improved wound management. Dale, Roderic M.K., et al. 424/445; 514/44 514/47 514/49 A61K048/00 A61K009/70.
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- ☐ 4. [20020156025](#). 04 Dec 01. 24 Oct 02. Inhibition of vacuolar proton ATPase activity and/or the modulation of acidic organelle function sensitizes cells to radiation, chemotherapy and biological agents. Paglin, Shoshana, et al. 514/28; 600/1 A61K031/7048 A61N005/00.
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- ☐ 7. [5212235](#). 27 Dec 90; 18 May 93. Hydrophobically modified proteins. Nestaas; Eirik, et al. 525/54.1; 530/343 530/354 530/356. C07K001/12 C08H001/06 .
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Terms	Documents
L1 and L2	7

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[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 11 of 11 returned.**

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- ☐ 2. [20050147991](#). 05 Oct 04. 07 Jul 05. Enzymatic template polymerization. Samuelson, Lynne A., et al. 435/6; 435/91.2 525/54.2 C12Q001/68 C12P019/34.
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- ☐ 4. [20050084888](#). 05 Oct 04. 21 Apr 05. Enzymatic template polymerization. Samuelson, Lynne A., et al. 435/6; 525/54.2 C12Q001/68 C08G063/48 C08G063/91.
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